Material Safety Data Sheet: Coated Silica

Chemical names and synonyms: Silica gel; silicon dioxide.

Uses: Coated silica is intended for packing columns for use in chromatography.

Composition: Amorphous silica with polymeric coatings.

Chief hazard: Inhalation. Avoid inhaling products containing microparticulate amorphous silica; it dries and irritates mucous membranes and respiratory passages. Elevated exposure over long term can lead to silicosis. The occupational exposure standard for amorphous silica is as follows:

<table>
<thead>
<tr>
<th>Reference Period</th>
<th>Total Inhalation Dust</th>
<th>Respirable Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 hr TWA ref period</td>
<td>6mg/m³</td>
<td>3mg/m³</td>
</tr>
<tr>
<td>10 min TWA ref period</td>
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</table>

Handling: To avoid inhaling, handle material in a fume hood. Follow Good Laboratory Practices.

Fire Hazard: Silica is not a fire hazard. The polymeric coatings could burn briefly; avoid breathing any resulting gases.

Reactivity: No hazards known.

Spill Clean-up: Use a vacuum cleaner if available. If not, sweep up using respiratory protection. May be discarded in a landfill.

First aid: Eyes: Irrigate with water to remove particles. Skin: Silica tends to dry skin; wash with soap and water. Inhalation: Blow nose to expel particles. Ingestion: Spit out and wash mouth with water.

If irritation persists, consult a physician.